



GROWING GARLIC IN A WINDOW BOX AND OBSERVING BULB FORMATION



QUESTION

How does garlic grow, and how do bulbs form underground?

BACKGROUND

Garlic is a plant that grows from cloves. When planted, each clove sends out roots and a green shoot. Underground, the clove develops into a bulb made up of many cloves. By observing garlic over time, we can see how it grows above and below the soil and how the bulb forms.

MATERIALS

- 1 whole garlic bulb (organic if possible)
- Window box or planter with drainage holes
- Potting soil
- Watering can
- Ruler
- Plant marker or labels
- Notebook or observation sheet
- Camera or phone (optional)

PROCEDURE

1. Fill the window box with potting soil.
2. Separate the garlic cloves from the bulb, keeping the papery skin on.
3. Plant each clove pointy end up, about 1 inch deep and 2 inches apart.
4. Water gently.
5. Place the window box in a sunny window (at least 4–6 hours of sunlight daily).
6. Water when the top of the soil feels dry.
7. Observe and record your garlic's growth at least once a week.
8. After several months (4–6 months), carefully harvest and examine the bulbs.

RESULTS

My garlic bulbs looked like this when I harvested them:



HYPOTHESIS

If I plant garlic cloves in soil and give them water and sunlight, then they will grow shoots and form bulbs underground.

I think _____

OBSERVATION TABLE

Date	Days Since Planting	Shoot Height (cm)	What I See (leaves, color, changes)	Notes / Drawing

CONCLUSION

What did you learn about how garlic grows and how bulbs form?

Was your hypothesis correct? Why or why not?



THINK FURTHER

What would happen if the garlic did not get enough sunlight or water?
How is garlic propagation similar to or different from other plants you know?

